



Food Grade Intermediate Fluid & Hydraulic Oil for  
PULSA Series and PULSAR pumps

**GENERAL INFORMATION**

The PQ AA Series of Food Grade Lubricants and Hydraulic Fluids grades (SAE) 10 through 40 (ISO grades 32 through 150) are white oil based lubricating oils that meet requirements of the former USDA H-1 system where incidental food contact can occur.

PQ AA 10-40 Food Grade Lubricants meet the requirements of FDA regulation 21 CFR 178.3570.

**TYPICAL PROPERTIES:**

PULSAR &  
Intermediate Fluid      PULSA Series

PROPERTIES	TEST METHOD	AA-10	AA-40
ISO Grade	ASTM D-2422	32	150
SAE Grade	SAE J-300	10W	40
Viscosity @ 40°C, cSt	ASTM D-445	31	164
Viscosity @ 100°C, cSt	ASTM D-445	5.1	14.7
Viscosity @ 100°F, SUS	ASTM D-2161	161	872
Viscosity @ 210°F, SUS	ASTM D-2161	43	78
Viscosity Index	ASTM D-2270	90	87
Pour Point, °C	ASTM D-92	-15	- 10
Flash Point, °C, COC	ASTM D-97	205	218
Copper Strip Corrosion, 3 hrs @ 100°C	ASTM D-130	1a	1a
Rust Test	ASTM D-665 B	Pass	Pass
Four-Ball EP Weld Point, kg	ASTM D-2782	160	160
Four-Ball Wear, 1200 rpm, 167°F, 40 Kg, 1 hr, mm	ASTM D-4172	0.49	0.42
Evaporative Loss, 100°C, 22 hrs	ASTM D-972	1.4	0.9
Specific Gravity, 15.6°C	ASTM D-1298	0.87	0.89

**APPLICATIONS**

- Hydraulic systems, vacuum pumps, compressors, bearings, and gears
- Slides, ways, and chains
- Wipe down oil.



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**For more information please refer to the relevant Material Safety Data Sheet accompanying each product.**

**PQ AA SERIES (ISO 32 TO 150)**

## **ADVANTAGES**

- H-1 approval
- Excellent EP Properties
- Excellent anti-wear properties
- Rust and oxidation inhibited

## **APPROVALS**

PQ® Food Grade Lubricants are approved, recommended, and field tested by many OEM's in the food processing, baking, bottling, canning, meat processing, and pharmaceutical industries.

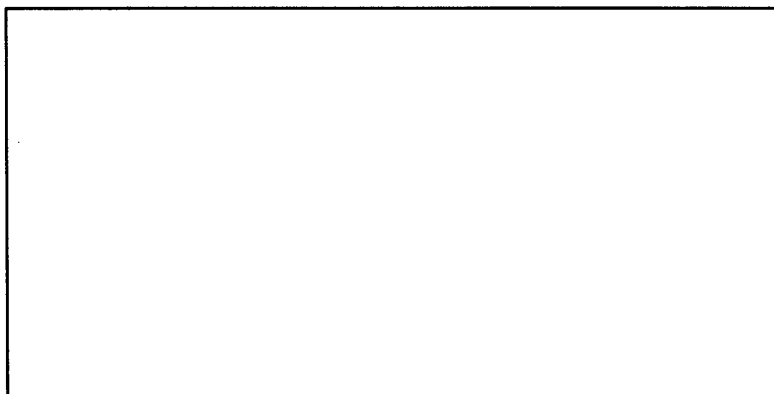
NSF International under "USDA Regulations, Proprietary Substances and Nonfood Compounds" lists ANDEROL and PQ food grade lubricants. (See WWW.NSF.ORG) ANDEROL food grade lubricants also meet the certification requirements recommended by the National Lubricating Grease Institute (NLGI) and the European Lubricating Grease Institute (ELGI).

## **HANDLING AND STORAGE**

Food Grade Lubricants generally present little hazard in normal handling if ordinary care is exercised. If spilled, cover inert, absorbent material and remove. Flush the area with water.

Although PQ Food Grade Lubricants are not highly flammable, they will burn and should be kept away from open flames. In case of fire, use water spray, foam, carbon dioxide, or dry chemical. PQ Food Grade Lubricants should be stored preferably in protected locations to prevent contamination. Do not re-use drums; flush and send to reconditioner.

PQAA10-40: 1/31/02



**PULSAFEEDER**  
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